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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/517,918	12/14/2004	Joachim Wilhelm Hellmig	NL 020529	8895	
24737	7590 08/24/2006		EXAM	EXAMINER	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			RIVERO, MINERVA		
P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER	
			2627		
			DATE MAILED: 08/24/200	DATE MAILED: 08/24/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	n No.	Applicant(s)			
Office Action Summary		10/517,91	8	HELLMIG, JOACHIM WILHELM			
		Examiner		Art Unit	_		
	·	Minerva R		2627			
Period fo	The MAILING DATE of this communication Reply	on appears on the	cover sheet with the c	orrespondence address			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR FOR HEVER IS LONGER, FROM THE MAILIN nsions of time may be available under the provisions of 37 CS SIX (6) MONTHS from the mailing date of this communicated period for reply is specified above, the maximum statutory reto reply within the set or extended period for reply will, by eply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF TH CFR 1.136(a). In no even ion. period will apply and will statute, cause the appl	IS COMMUNICATION ont, however, may a reply be timed to be spire SIX (6) MONTHS from the second ABANDONE	N. nely filed the mailing date of this communication. D. (35 U.S.C. § 133).			
Status							
1)⊠	Responsive to communication(s) filed on	14 June 2006.					
•	•	This action is no	on-final.				
3)	Since this application is in condition for a	_		secution as to the merits is			
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
		•					
Dispositi	on of Claims						
4) 🖾	Claim(s) 1-14 is/are pending in the application	cation.	*				
	4a) Of the above claim(s) is/are wi	thdrawn from coi	nsideration.				
5) 🗌	Claim(s) is/are allowed.	•	•	v.			
6)⊠	Claim(s) <u>1-14</u> is/are rejected.						
7)	Claim(s) is/are objected to.		· •				
8) 🗌	Claim(s) are subject to restriction	and/or election re	equirement.				
Applicati	on Papers		· · · · · · · · · · · · · · · · · · ·				
9) 🗌	The specification is objected to by the Exa	aminer.					
10)	The drawing(s) filed on is/are: a)[	accepted or b)	objected to by the I	Examiner.			
	Applicant may not request that any objection	to the drawing(s) b	e held in abeyance. See	e 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the o	correction is require	ed if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).			
11)	The oath or declaration is objected to by t	he Examiner. No	te the attached Office	Action or form PTO-152.			
D 4 - 44		•					
Priority (	ınder 35 U.S.C. § 119						
	Acknowledgment is made of a claim for fo ☐ All  b)☐ Some * c)☐ None of:	oreign priority und	der 35 U.S.C. § 119(a)	o-(d) or (f).			
a) <sub>[</sub>		ımanta hava haa	n ropolivod				
	<ul><li>1. Certified copies of the priority docu</li><li>2. Certified copies of the priority docu</li></ul>			on No			
			• •				
	3. Copies of the certified copies of the application from the International E	•		u III IIIS National Stage			
* 0	See the attached detailed Office action for			ad.			
, •	see the attached detailed Office action for	a list of the certif	ned copies not receive	su.			
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Attachmen	t(s)			• -			
1) Notic	e of References Cited (PTO-892)		4) Interview Summary	(PTO-413)			
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-94	ate					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)  6) Other:							

#### **DETAILED ACTION**

## Response to Amendment

1. In the response filed 6/14/06, Applicants amended claims 1 and 11, added claim 14, and submitted arguments for allowability of pending claims.

## Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1-13 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Regarding claims 1-13, the added material, which is new matter added to the claims is as follows: 'three consecutive erase periods that together substantially fill the period between the two successive sequences of pulses for writing marks' (claims 1 and

Art Unit: 2627

11). The claimed feature lacks a written description and hence is new matter as not being found in the original disclosure.

Applicant is required to cancel the new matter in the reply to this Office Action.

Page 3

## Response to Arguments

4. Regarding claims 1 and 11, Applicant argues that Dekker discloses an erase period that starts with a low pulse. As shown in Fig. 2b of Applicant's Specification, there is a low pulse after the last writing pulse and before the first higher erase pulse. Figures 1A and 1B in Dekker's disclosure shows an erasing pattern wherein, after a low pulse succeeding a final writing pulse, two erasing pulses of 0.5T1 length occur, followed by a lower intensity 0.5T1 pulse.

Therefore the claims stay rejected.

# Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Art Unit: 2627

6. Claims 1-8 and 11-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Dekker (US 2002/0003762).

Page 4

- Regarding claims 1, 11 and 14, Dekker discloses a recording device for and method of recording marks representing data in an information layer of a record carrier by irradiating the information layer by means of a pulsed radiation beam, each mark being written by a sequence of pulses ([0001]), the recorded marks being erasable by irradiating the information layer with an erase radiation beam (*erase step*, [0001]), characterized in that said erase radiation beam has a first erase power level for a first erase period (Pe (*after pulse sequence 13*) during a first ½ T1 segment, see Fig. 1A and 1B, pulse sequence 14), a second erase power level higher than or equal to said first erase power level for a second erase period (Pe during a second ½ T1 segment, see Fig. 1A and 1B, pulse sequence 14), and a third power level lower than said second erase power level for a third erase period (P1 during two ½ T1 segments, prior to Pw, Fig. 1A, and P2 during two ½ T1 segments, prior to Pw, Fig. 1B, *variable bias power level*, [0010]).
- 8. Regarding claims 2 and 12, Dekker discloses said third erase power is lower than said first erase power (Fig. 1, given 3<sup>rd</sup> erase power level at 1<sup>st</sup> ½ T1 segment is lower than P2 is lower than Pe, given that the 1<sup>st</sup> erase period is bottom pulse at P2 and the 2<sup>nd</sup> erase period is top pulse at Pe).

Art Unit: 2627

9. Regarding claims 3 and 13, Dekker discloses said first erase power level and said third erase power level are substantially equal and lower than said second erase power level (see Fig. 1, 1<sup>st</sup> and 3<sup>rd</sup> erase periods are bottom pulses at P2 and 2<sup>nd</sup> erase period is top pulse at Pe).

Page 5

- 10. Regarding claim 4, Dekker discloses said second erase power level is lower than the write power level (w) of said pulses of said radiation beam for recording marks ([0003], Lines 5-8).
- 11. Regarding claim 5, Dekker discloses said third erase power level is higher than the bias power level (b) between said pulses of said pulsed radiation beam for recording marks (P1 and P2 are higher than the bias power in writing pulse sequence 13, see Figs. 1A and 1B).
- 12. Regarding claim 6, Dekker discloses said first erase period and said second erase period are shorter than said third erase period (Pe during a first and second ½ T1 segments, P1 and P2 occur during a T1 segment prior to Pw, Figs. 1A and 1B).
- 13. Regarding claim 7, Dekker discloses the sum of said first erase period and said second erase period is shorter than half the shortest mark being recorded (mark length is 4T1, first and second erase periods total T1, Figs. 1A and 1B).

Art Unit: 2627

14. Regarding claim 8, Dekker discloses said information layer has a phase which is reversibly changeable between a crystal phase and an amorphous phase ([0002], Lines 4-6).

Page 6

## Claim Rejections - 35 USC § 103

- 15. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 16. Claims 9 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dekker (US 2002/0003762) in view of Nagata *et al.* (US 6,456,584).
- 17. Regarding claims 9 and 10, Dekker does not disclose but Nagata *et al.* do disclose said record carrier comprises at least two information layers (Col. 3, lines 51-59) and at least one of said two information layers is at least partially transparent layer (Col. 4, Lines 44-45).

Therefore it would have been obvious to one ordinarily skilled in the art at the time of the invention to supplement the teachings of Dekker by having said record carrier comprise at least two information layers, and having at least one of said two

Art Unit: 2627

information layers be at least partially transparent layer, as disclosed by Nagata et al., in order to achieve a higher recording density in the optical disk, and to enable retrieval of the contents in the deeper information layer of the medium.

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Art Unit: 2627

Page 8

19. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minerva Rivero whose telephone number is (571) 272-7626. The examiner can normally be reached on Monday-Friday 9:00 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on (571) 272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MR 8/16/06

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